



STIC Search Report

EIC 1700

STIC Database Tracking Number: 213590

TO: Satya Gudibande
Location: Rem 3a20 / 3c18
Art Unit : 1654
January 23, 2007
Phone: 571-272-8146
Serial Number: 10 / 520791

From: Jan Delaval
Location: EIC 1700
Remsen 4a30
Phone: 571-272-2504

jan.delaval@uspto.gov

Search Notes

=> d his

(FILE 'HOME' ENTERED AT 15:55:17 ON 23 JAN 2007)
SET COST OFF

FILE 'REGISTRY' ENTERED AT 15:55:34 ON 23 JAN 2007
E TUBULYSIN

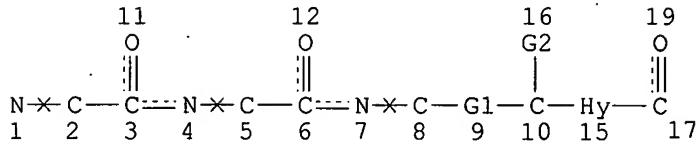
L1 48 S E3
L2 14 S L1 AND NR>=1
ACT SATYA520/A

L3 STR
L4 16 SEA FILE=REGISTRY SSS FUL L3

L5 21 S L2,L4
L6 5 S L5 NOT L4
L7 STR
L8 0 S L7
L9 STR L7
L10 0 S L9
L11 STR L9
L12 0 S L11

=> d sta que l12

L11 STR



VAR G1=O/S/N/C

VAR G2=O/S/N

NODE ATTRIBUTES:

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NSPEC IS RC AT 2
NSPEC IS RC AT 3
NSPEC IS RC AT 4
NSPEC IS RC AT 5
NSPEC IS RC AT 6
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

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NUMBER OF NODES IS 16

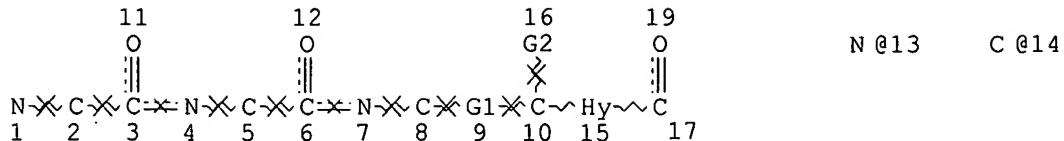
STEREO ATTRIBUTES: NONE

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INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1374843 TO 1406237
PROJECTED ANSWERS: 0 TO 0

=> d sta que 18
L7 STR



VAR G1=O/S/13/14
VAR G2=O/S/N

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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE
L8 0 SEA FILE=REGISTRY SSS SAM L7

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INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

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BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 1944052 TO 1981228
PROJECTED ANSWERS: 0 TO 0

=> fil reg
FILE 'REGISTRY' ENTERED AT 15:49:36 ON 23 JAN 2007
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 22 JAN 2007 HIGHEST RN 918106-10-2
DICTIONARY FILE UPDATES: 22 JAN 2007 HIGHEST RN 918106-10-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

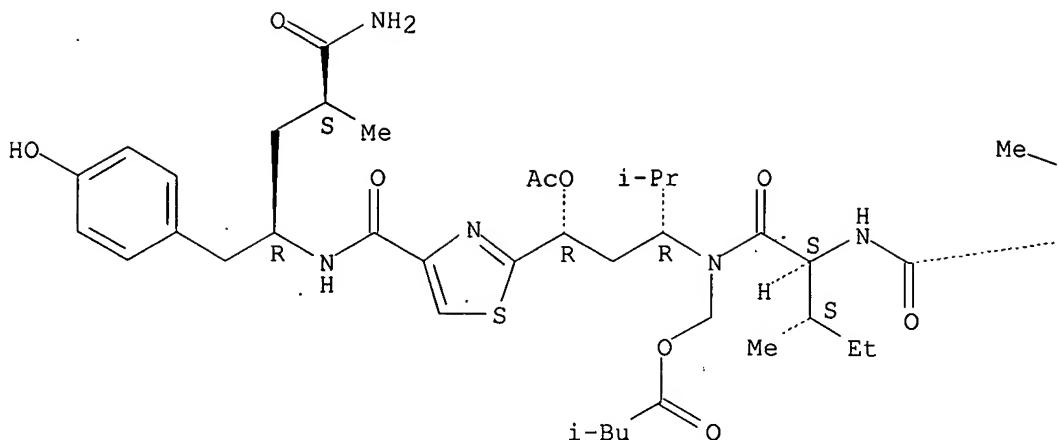
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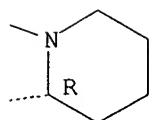
L15 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2007 ACS on STN
RN 874108-55-1 REGISTRY
ED Entered STN: 13 Feb 2006
CN Butanoic acid, 3-methyl-, [(1R,3R)-3-(acetyloxy)-3-[4-[(1R,3S)-4-amino-1-[(4-hydroxyphenyl)methyl]-3-methyl-4-oxobutyl]amino]carbonyl]-2-thiazolyl]-1-(1-methylethyl)propyl][(2S,3S)-3-methyl-2-[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]amino]methyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C43 H66 N6 O9 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:143058

L15 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2007 ACS on STN

RN 205304-86-5 REGISTRY

ED Entered STN: 10 May 1998

CN Benzenepentanoic acid, γ -[[[2-[(1R,3R)-1-(acetoxy)-4-methyl-3-[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- α -methyl-, (α S, γ R)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Tubulysin A

FS STEREOSEARCH

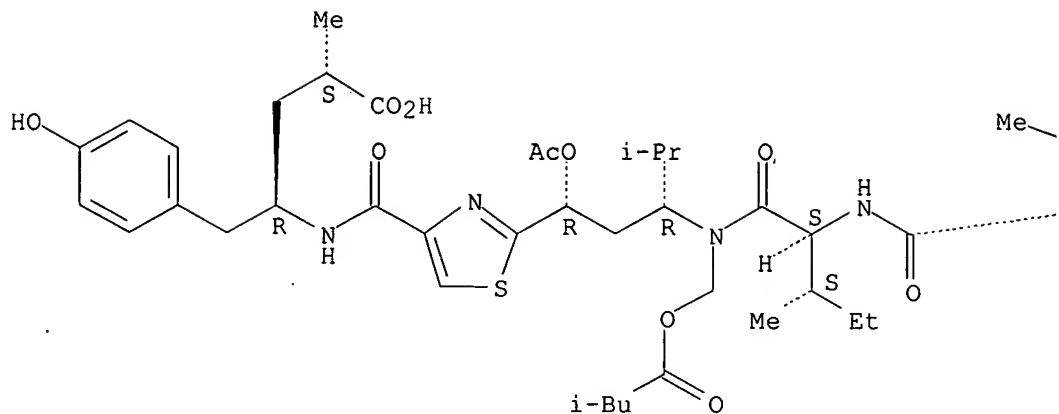
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SR CA

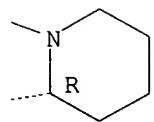
LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

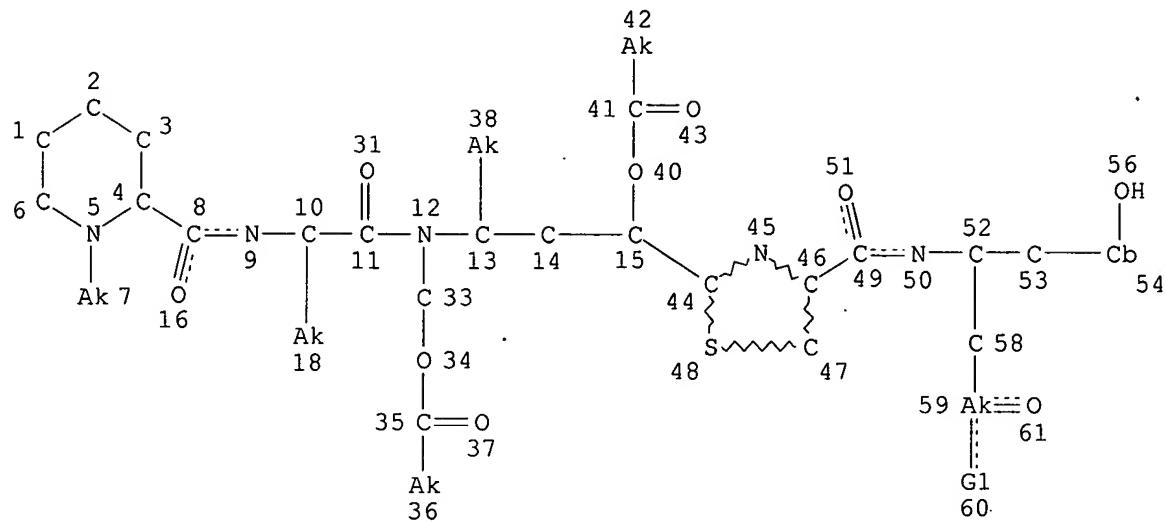


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

14 REFERENCES IN FILE CA (1907 TO DATE)
 4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:26562
 REFERENCE 2: 145:508
 REFERENCE 3: 144:460476
 REFERENCE 4: 144:343554
 REFERENCE 5: 144:187658
 REFERENCE 6: 144:143058
 REFERENCE 7: 142:384897
 REFERENCE 8: 142:19680
 REFERENCE 9: 141:23346
 REFERENCE 10: 140:248261

=> d sta que 123
L21 STR



VAR G1=O/N
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 44

STEREO ATTRIBUTES: NONE
L23 16 SEA FILE=REGISTRY SSS FUL L21

100.0% PROCESSED 72 ITERATIONS 16 ANSWERS
SEARCH TIME: 00.00.01

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L1 1 S US20050249740/PN OR (US2005-520791# OR WO2003-EP7415 OR DE200
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L2 28 S E4,E5
E DOEMLING/AU
L3 43 S E4-E6
E WEBER/AU
L4 18 S E3
E WEBER L/AU
L5 318 S E3-E15
E WEBER LUTZ/AU
L6 205 S E3-E9
E MORPHOCHEM/PA,CS

L7 117 S E3-E58
L8 33 S (MORPHO? (L)KOMB? (L)CHEM?) /PA,CS
L9 117 S L7,L8
L10 7 S L1-L9 AND TUBULYSIN?
SEL RN

FILE 'REGISTRY' ENTERED AT 15:25:56 ON 23 JAN 2007

L11 118 S E1-E118
L12 19 S L11 AND NC5/ES AND 46.150.18/RID AND NCSC2/ES
L13 1 S L12 AND C43H66N6O9S
L14 1 S L12 AND C43H65N5O10S
L15 2 S L13,L14
L16 7934 S (16.299.11 AND 46.150.18 AND 46.156.1)/RID
L17 0 S L16 AND C2H4O
L18 1493 S L16 AND 3/NR
L19 STR
L20 0 S L19
L21 STR L19
L22 0 S L21
L23 16 S L21 FUL
SAV L23 SATYA520/A
L24 0 S L23 AND C2H4O
L25 14 S L23 NOT`L15
L26 1 S PEG/CN

FILE 'HCAPLUS' ENTERED AT 15:46:46 ON 23 JAN 2007

L27 14 S L15
L28 1 S L26 AND L27
L29 1 S L1-L10 AND L28
L30 7 S L25
L31 0 S L30 AND L26
L32 2 S L27 AND POLYOXYALKYLENE?/CW,CT
L33 0 S L27 AND (PEG OR POLYETHYLENEGLYCOL OR POLYETHYLENEOXIDE OR PO
L34 1 S L27 AND (POLYETHYLENE GLYCOL OR POLY() (ETHYLENEGLYCOL OR ETHY
L35 0 S L27 AND (POLYETHYLENE OXIDE OR POLY() (ETHYLENEOXIDE OR ETHYLE
L36 0 S L27 AND (POLYOXY ETHYLENE OR POLY() (OXYETHYLENE OR OXY ETHYLE
L37 0 S L27 AND (POE OR PEO OR EO OR OE)
L38 2 S L28,L28,L32,L34

FILE 'REGISTRY' ENTERED AT 15:49:36 ON 23 JAN 2007

=> d 126 ide can

L26 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 25322-68-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- (9CI) (CA INDEX
NAME)
OTHER NAMES:
CN α , ω -Hydroxypoly(ethylene oxide)
CN α -Hydro- ω -hydroxypoly(oxy-1,2-ethanediyl)
CN α -Hydro- ω -hydroxypoly(oxyethylene)
CN 1,2-Ethanediol, homopolymer
CN 16600
CN 1660S
CN 400DAB8
CN 636: PN: WO2006062685 SEQID: 669 claimed sequence
CN Alkox
CN Alkox E 100
CN Alkox E 130

CN Alkox E 160
 CN Alkox E 240
 CN Alkox E 30
 CN Alkox E 30G
 CN Alkox E 45
 CN Alkox E 60
 CN Alkox E 75
 CN Alkox LE
 CN Alkox R 100
 CN Alkox R 1000
 CN Alkox R 15
 CN Alkox R 150
 CN Alkox R 400
 CN Alkox SR
 CN Alkox SW
 CN Antarox E 4000
 CN Aqua Calk TWB-P
 CN Aquacide III
 CN Aquaffin
 CN Badimol
 CN BDH 301
 CN Bradsyn PEG
 CN Breox 2000
 CN Breox 20M
 CN Breox 4000
 CN Breox 550
 CN Breox PEG 300
 CN CAFO 154
 CN Carbowax
 CN Carbowax 100
 CN Carbowax 1000
 CN Carbowax 1350
 CN Carbowax 14000
 CN Carbowax 1450
 CN Carbowax 1500
 CN Carbowax 1540
 CN Carbowax 20
 CN Carbowax 200
 CN Carbowax 20000
 CN PEG

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

AR 6790-09-6, 9002-90-8
 DR 615575-04-7, 876655-84-4, 12676-74-3, 12770-93-3, 9081-95-2, 9085-02-3,
 9085-03-4, 174460-08-3, 174460-09-4, 54510-95-1, 125223-68-9, 54847-64-2,
 59763-40-5, 64441-68-5, 64640-28-4, 133573-31-6, 25104-58-9, 25609-81-8,
 134919-43-0, 101677-86-5, 99264-61-6, 106186-24-7, 112895-21-3,
 114323-93-2, 50809-04-6, 50809-59-1, 119219-06-6, 60894-12-4, 61840-14-0,
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 188924-03-0, 189154-62-9, 191743-71-2, 196696-84-1, 201163-43-1,
 206357-86-0, 221638-71-7, 225502-44-3, 270910-26-4, 307928-07-0,
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MF (C₂ H₄ O)_n H₂ O

CI PMS, COM

PCT Polyether

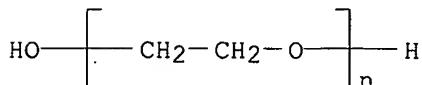
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA,
CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST,

CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT,
 ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
 MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER,
 TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

95320 REFERENCES IN FILE CA (1907 TO DATE)
 24688 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 95672 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE	1:	146:92198
REFERENCE	2:	146:92188
REFERENCE	3:	146:92176
REFERENCE	4:	146:91344
REFERENCE	5:	146:91263
REFERENCE	6:	146:91213
REFERENCE	7:	146:90360
REFERENCE	8:	146:90138
REFERENCE	9:	146:89004
REFERENCE	10:	146:89002

=> fil hcaplus
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FILE COVERS 1907 - 23 Jan 2007 VOL 146 ISS 5

FILE LAST UPDATED: 22 Jan 2007 (20070122/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

> d bib abs hitind hitstr retable tot 138

L38 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN
 AN 2006:515876 HCAPLUS
 DN 145:26562
 TI Muteins of human neutrophil gelatinase-associated lipocalin with affinity for cytotoxic T lymphocyte-associated antigen (CTLA-4) and their use for treatment of cancer, infectious, or (auto)immune diseases
 IN Matschiner, Gabriele; Hohlbaum, Andreas; Schlehuber, Steffen; Poehlchen, Martin; Skerra, Arne
 PA Pieris Proteolab A.-G., Germany
 SO PCT Int. Appl., 160 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006056464	A2	20060601	WO 2005-EP12640	20051125
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRAI US 2004-631200P P 20041126
 US 2004-631202P P 20041126
 US 2004-631227P P 20041126
 US 2004-631253P P 20041126
 US 2004-522970P P 20041129
 US 2005-679811P P 20050511
 US 2005-680067P P 20050511

OS MARPAT 145:26562

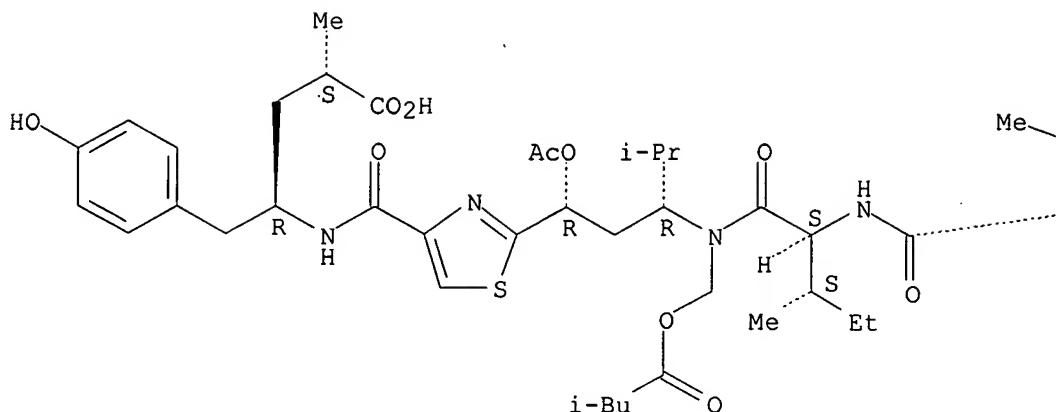
AB The present invention relates to compds. with affinity for the cytotoxic T lymphocyte associated antigen (CTLA-4), wherein the compound exhibits a synergistic mode of action in that the the compound (a) increases T cell priming or T cell expansion or the generation of memory T cells by blocking of CTLA-4, and (b) enhances effector T cell activity in tumor tissue or lymphoid tissue by blocking of CTLA-4. The compound of the invention can be a protein, a small organic mol., a peptide, or a nucleic acid. The invention also relates to muteins derived from a protein selected from the group consisting of human neutrophil gelatinase-associated lipocalin (hNGAL), rat α 2-microglobulin-related protein (A2m) and mouse 24p3/uterocalin (24p3). The muteins have binding specificity for CTLA-4, wherein said mutein: (a) comprises amino acid replacements at at least one of the sequence position corresponding to sequence positions

33-54, 66-83, 94-106, and 123-136 of hNGAL, and (b) binds human CTLA-4 with a KD of 50 nM or less. The serum half-life and pharmacokinetics of hNGAL mutoins are improved by fusions with albumin-binding domains and/or by cysteine residue mutants. The invention also relates to a pharmaceutical composition comprising such a compound or mutoin as well as to various pharmaceutical uses of such a compound or mutoin, for example, for the prevention and/or treatment of cancer, an auto-immune disease, or an infectious disease.

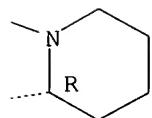
IC ICM A61K
 CC 15-2 (Immunochemistry)
 Section cross-reference(s): 1, 3, 63
 IT **Polyoxyalkylenes, biological studies**
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (mutoins of human neutrophil gelatinase-associated lipocalin with affinity for CTLA-4 and their use for treatment of cancer, infectious, or (auto)immune diseases)
 IT 50-18-0D, Cyclophosphamide, conjugates 51-21-8D, 5-Fluorouracil,
 conjugates 57-22-7D, Vincristine, conjugates 58-05-9D, Leucovorin,
 conjugates 58-85-5D, Biotin, conjugates 59-05-2D, Methotrexate,
 conjugates 362-07-2D, 2-Methoxyestradiol, conjugates 865-21-4D,
 Vinblastin, conjugates 4342-03-4D, Dacarbazine, conjugates 7440-57-5D,
 Gold, colloidal, conjugates 7689-03-4D, Camptothecine, conjugates
 15663-27-1D, Cisplatin, conjugates 20585-97-1D, Curacin, conjugates
 23214-92-8D, Doxorubicin, conjugates 25316-40-9D, Adriamycin, conjugates
 33069-62-4D, Paclitaxel, conjugates 33419-42-0D, Etoposide, conjugates
 41575-94-4D, Carboplatin, conjugates 53643-48-4D, Vindesine, conjugates
 61825-94-3D, Oxaliplatin, conjugates 71486-22-1D, Vinorelbine,
 conjugates 79394-15-3D, Dolastatin 1, analogs, conjugates
 113440-58-7D, Calicheamicin, conjugates 114977-28-5D, Taxotere,
 conjugates 117048-59-6D, Combretastatin A-4, conjugates 139504-50-0D,
 Maytansinoid DM 1, compds., conjugates 205304-86-5D, Tubulysin
 A, compds., conjugates
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (mutoins of human neutrophil gelatinase-associated lipocalin with affinity for CTLA-4 and their use for treatment of cancer, infectious, or (auto)immune diseases)
 IT 205304-86-5D, Tubulysin A, compds., conjugates
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (mutoins of human neutrophil gelatinase-associated lipocalin with affinity for CTLA-4 and their use for treatment of cancer, infectious, or (auto)immune diseases)
 RN 205304-86-5 HCPLUS
 CN Benzenepentanoic acid, γ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-
 [(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-
 oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-
 thiazolyl]carbonyl]amino]-4-hydroxy- α -methyl-, (α S, γ R)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L38 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN
 AN 2004:41504 HCAPLUS
 DN 140:71010
 TI Tubulysin conjugates with polymers or biomolecules, and use for the treatment of cancer
 IN Doemling, Alexander; Weber, Lutz
 PA Morphochem Aktiengellschaft fuer Kombinatorische Chemie, Germany
 SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2

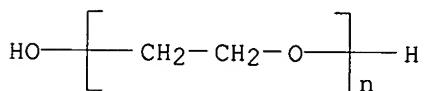
DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004005326	A2	20040115	WO 2003-EP7415	20030709
	WO 2004005326	A3	20040219		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,			

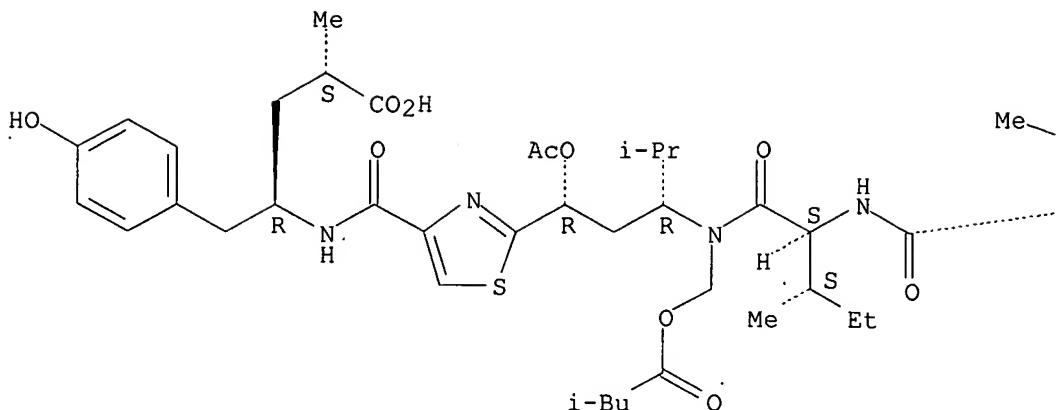
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 DE 10230875 A1 20040122 DE 2002-10230875 20020709
 DE 10305531 A1 20040819 DE 2003-10305531 20030211
 AU 2003253048 A1 20040123 AU 2003-253048 20030709
 EP 1521769 A2 20050413 EP 2003-762673 20030709
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 US 2005249740 A1 20051110 US 2005-520791 20050108
 PRAI DE 2002-10230875 A 20020709
 DE 2003-10305531 A 20030211
 WO 2003-EP7415 W 20030709
 OS MARPAT 140:71010
 AB The invention discloses tubulysin conjugates (e.g. of tubulysin A) with polymer or biomols. (e.g. antibodies) and the use thereof in the treatment of cancers.
 IC ICM C07K0005-06
 ICS A61K0047-48
 CC 1-6 (Pharmacology)
 IT **Polyoxyalkylenes, biological studies**
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (tubulysin conjugates; tubulysin conjugates with polymers or biomols., and use for treatment of cancer)
 IT **25322-68-3D, Polyethylene glycol, tubulysin conjugates 205304-86-5D, Tubulysin A, conjugates with polymers or biomols.**
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (tubulysin conjugates with polymers or biomols., and use for treatment of cancer)
 IT **25322-68-3D, Polyethylene glycol, tubulysin conjugates 205304-86-5D, Tubulysin A, conjugates with polymers or biomols.**
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (tubulysin conjugates with polymers or biomols., and use for treatment of cancer)
 RN 25322-68-3 HCPLUS
 CN Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- (9CI) (CA INDEX NAME)



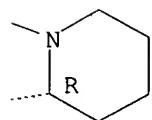
RN 205304-86-5 HCPLUS
 CN Benzenepentanoic acid, γ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[(2S,3S)-3-methyl-2-[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- α -methyl-, (α S, γ R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



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FILE 'USPATFULL' ENTERED AT 15:52:28 ON 23 JAN 2007
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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 18 Jan 2007 (20070118/PD)
 FILE LAST UPDATED: 23 Jan 2007 (20070123/ED)
 HIGHEST GRANTED PATENT NUMBER: US2007015693
 HIGHEST APPLICATION PUBLICATION NUMBER: US2007016995
 CA INDEXING IS CURRENT THROUGH 23 Jan 2007 (20070123/UPCA)
 ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 18 Jan 2007 (20070118/PD)
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2006
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2006

=> d 147 bib abs kwic hitstr tot

L47 ANSWER 1 OF 2 USPATFULL on STN
 AN 2006:167882 USPATFULL
 TI Bis(thio-hydrazide amides) for treatment of hyperplasia
 IN Sherman, Matthew L., Newton, MA, UNITED STATES
 Vaghefi, Farid, Burlington, MA, UNITED STATES
 Chen, Lan Bo, Lexington, MA, UNITED STATES
 PI US 2006142393 A1 20060629
 AI US 2005-226929 A1 20050914 (11)

PRAI US 2004-610270P 20040916 (60)
 DT Utility
 FS APPLICATION
 LREP HAMILTON, BROOK, SMITH & REYNOLDS, P.C., 530 VIRGINIA ROAD, P.O. BOX
 9133, CONCORD, MA, 01742-9133, US
 CLMN Number of Claims: 44
 ECL Exemplary Claim: 1
 DRWN 2 Drawing Page(s)
 LN.CNT 2506

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods and medical devices for treating a proliferative disorder in a subject, e.g., restenosis in a blood vessel that has been implanted with a stent, employ a bis(thio-hydrazide amide) represented by Structural Formula I or a pharmaceutically acceptable salt or solvate thereof.
 ##STR1## Y is a covalent bond or an optionally substituted straight chained hydrocarbyl group, or, Y, taken together with both >C=Z groups to which it is bonded, is an optionally substituted aromatic group.

R.sub.1-R.sub.4 are independently --H, an optionally substituted aliphatic group, an optionally substituted aryl group, or R.sub.1 and R.sub.3 taken together with the carbon and nitrogen atoms to which they are bonded, and/or R.sub.2 and R.sub.4 taken together with the carbon and nitrogen atoms to which they are bonded, form a non-aromatic heterocyclic ring optionally fused to an aromatic ring.

R.sub.7-R.sub.8 are independently --H, an optionally substituted aliphatic group, or an optionally substituted aryl group. Z is O or S.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

DETD . . . can be selected from the group consisting of polycarboxylic acids, cellulosic polymers, gelatin, polyvinylpyrrolidone, maleic anhydride polymers, polyamides, polyvinyl alcohols, **polyethylene oxides**, glycosaminoglycans, polysaccharides, polyesters, polyurethanes, silicones, polyorthoesters, polyanhydrides, polycarbonates, polypropylenes, polylactic acids, polyglycolic acids, polycaprolactones, polyhydroxybutyrate valerates, polyacrylamides, polyethers, and mixtures. . .

DETD . . . kinase C inhibitor; protein kinase C inhibitors, microalgal; protein tyrosine phosphatase inhibitors; purine nucleoside phosphorylase inhibitors; purpurins; pyrazoloacridine; pyridoxylated hemoglobin **polyoxyethylene** conjugate; raf antagonists; raltitrexed; ramosetron; ras farnesyl protein transferase inhibitors; ras inhibitors; ras-GAP inhibitor; retelliptine demethylated; rhenium Re 186 etidronate; . . .

IT 128-62-1, Narcosine 2068-78-2, Vincristine sulfate 2226-96-2, Tmpn 17313-52-9, Centaureidin 33927-09-2, Oncocidin a1 74588-78-6, D-64131 76129-16-3, IDN 5005 103614-76-2, Halichondrin b 108885-68-3, Taccalonolide a 110417-88-4, Dolastatin 10 115268-43-4, Fijianolide b 124784-31-2, Erbulozole 126268-81-3, Mivobulin isethionate 127943-53-7, Discodermolide 131727-01-0, Diazonamide a 134742-19-1, NSC-639829 143527-09-7 143842-96-0 149606-27-9, Auristatin pe 149715-96-8, Spongistatin 1 150624-44-5, Spongistatin 2 151852-31-2, Spongistatin 3 152044-53-6, Epothilone a 152044-54-7, Epothilone b 153698-80-7, Spongistatin 5 153745-94-9, Spongistatin 4 156294-36-9 156940-43-1 157207-90-4, Hemisterlin 158080-65-0, Spongistatin 6 158681-42-6, Spongistatin 7 158734-18-0, Spongistatin 8 158734-19-1, Spongistatin 9 158809-58-6 158976-49-9 160237-10-5 160237-25-2 162084-71-1 162705-22-8, AC-7739 165659-77-8, KAR-2 170489-10-8, AM-97 172481-83-3 172837-41-1, Cemadotin hydrochloride 178927-85-0, Dz-3358 186256-67-7, Cryptophycin 52 186348-23-2 186692-73-9,

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 2'00815-37-8, (-)-Phenylahistin 201049-37-8, Epothilone e 201137-02-2
 201417-51-8 204205-90-3, Nascapine 205304-86-5, Tubulysin a
 206866-02-6, Canadensol 208518-52-9, Epothilone f 209345-04-0
 212321-22-7, Epothilone a N-oxide 212953-45-2 213824-30-7,
 Desacetyleutherobin 216753-27-4, RPR-112378 218935-77-4, 3IAABU
 219990-27-9, Epothilone b N-oxide 228266-40-8, HTI-286 233256-51-4,
 FR 182877 252981-50-3, 21-Hydroxyepothilone d 253426-24-3, AC-7700
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 Caribaeolin 265646-19-3, Indanocine 265659-39-0 267893-27-6,
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 881184-45-8 881186-93-2, SC 12983 881186-98-7, D 82318 881187-05-9,
 D 82317 881187-08-2, A 318315 881187-15-1, D 43411 881187-18-4, D
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 245 881187-30-0, NPI 2350 881187-33-3, A 293620 881187-38-8, T
 138026 881187-43-5, DDE 313 881187-49-1, SDZ 268970 881187-55-9,
 SAH 49960 881187-60-6, GS 198 881187-66-2, LS 4559 881187-69-5, LS
 4477 881187-72-0, LS 4578 881187-75-3, LS 4559P
 (bis(thiohydrazide amides) for treatment of hyperplasia)

IT 205304-86-5, Tubulysin a

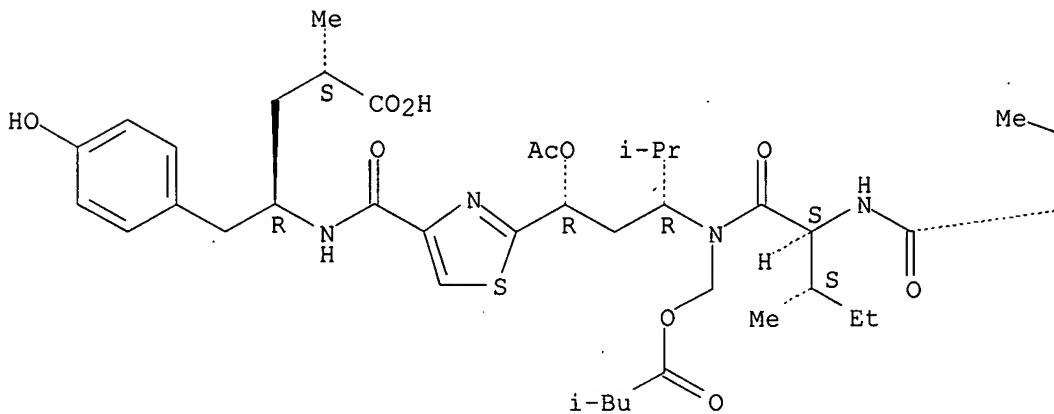
(bis(thiohydrazide amides) for treatment of hyperplasia)

RN 205304-86-5 USPATFULL

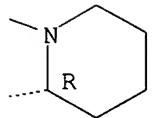
CN Benzenepentanoic acid, γ -[[[2-[(1R,3R)-1-(acetoxy)-4-methyl-3-
 [[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-
 oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-
 thiazolyl]carbonyl]amino]-4-hydroxy- α -methyl-,
 (α S, γ R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L47 ANSWER 2 OF 2 USPATFULL on STN
 AN 2005:286476 USPATFULL
 TI Tubulysin conjugates
 IN Domling, Alexander, Munchen, GERMANY, FEDERAL REPUBLIC OF
 Weber, Lutz, Germering, GERMANY, FEDERAL REPUBLIC OF
 PA R & D Biopharmaceuticals GmbH (non-U.S. corporation)
 PI US 2005249740 A1 20051110
 AI US 2003-520791 A1 20030709 (10)
 WO 2003-EP7415 20030709
 20050108 PCT 371 date
 PRAI DE 2002-10230875 20020709
 DE 2003-10305531 20030211
 DT Utility
 FS APPLICATION
 LREP EDWARDS & ANGELL, LLP, P.O. BOX 55874, BOSTON, MA, 02205, US
 CLMN Number of Claims: 8
 ECL Exemplary Claim: 1-6
 DRWN No Drawings
 LN.CNT 415
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The invention relates to novel tubulysin conjugates (e.g. of tubulysin A) and the use thereof in the treatment of cancer diseases.
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 SUMM . . . 40,000; especially MW=25,000-100,000 Da, preferably
 25,000-50,000 Da), polyethyleneglycol dendrimers, polyacrylic acid,
 hydroxyethyl starch (HES), polylactic-glycolid, poly-D,L-lactic
 acid-p-dioxanonepolyethylene glycol block copolymer (PLA-DX-PEG
), poly(ortho) ester, polyglutamate, polyaspartate, polymer from
 α - β -unsaturated monomers: (meth)acrylic acid, crotonic acid,
 maleic acid, maleic anhydride, fumaric acid, itaconic acid/anhydride, .
 SUMM Further preferred the polymer is a polyethyleneglycol
 PEG (especially a PEG with a molecular weight of more
 than 30 kDa to 100 kDa, preferred of max. 50 kDa), which especially is.
 DETD To a solution of 0.056 mmol Tubulysin A and 0.125 mmol PEG (6
 kDa, 10 kDa, 20 kDa, 35 kDa and 40 kDa, resp.) in a mixture of 3 ml
 acetonitrile and. . .
 DETD The diamines of the polyethyleneglycols (6 kDa, 10 kDa, 20
 kDa, 35 kDa bzw. 40 kDa) as well as their conjunction with Tubulysin A
 were. . .
 DETD The PEG dicarbonic acids (6 kDa, 10 kDa, 20 kDa, 35 kDa bzw.
 40 kDa) as well as their conjugation with Tubulysin. . .
 CLM What is claimed is:
 9. A compound of claim 7 wherein the polymer is a polyethylene

glycol.

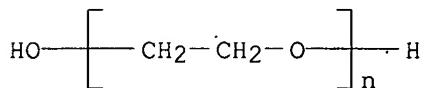
IT Polyoxyalkylenes, biological studies
 (tubulysin conjugates; tubulysin conjugates with polymers or biomols.,
 and use for treatment of cancer)

IT 25322-68-3D, Polyethylene glycol, tubulysin conjugates
 205304-86-5D, Tubulysin A, conjugates with polymers or biomols.
 (tubulysin conjugates with polymers or biomols., and use for treatment
 of cancer)

IT 25322-68-3D, Polyethylene glycol, tubulysin conjugates
 205304-86-5D, Tubulysin A, conjugates with polymers or biomols.
 (tubulysin conjugates with polymers or biomols., and use for treatment
 of cancer)

RN 25322-68-3 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- (9CI) (CA INDEX
 NAME)

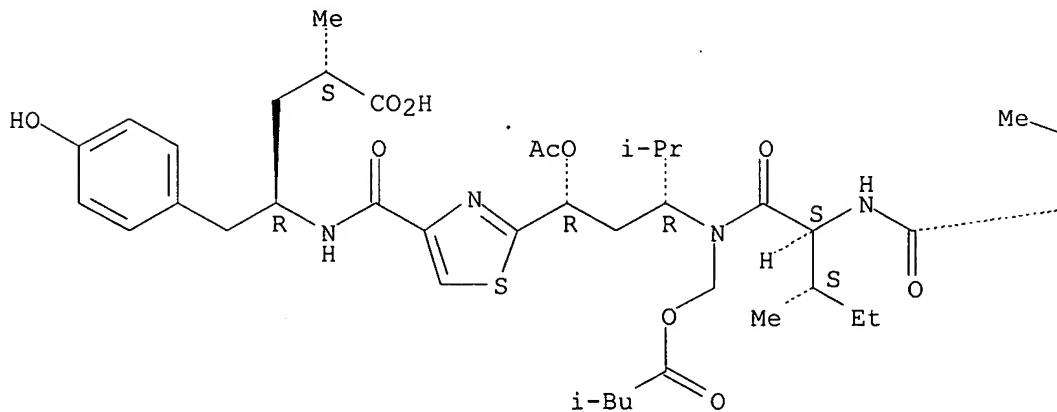


RN 205304-86-5 USPATFULL

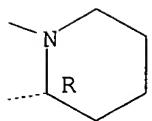
CN Benzenepentanoic acid, γ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-
 [[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-
 oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-
 thiazolyl]carbonyl]amino]-4-hydroxy- α -methyl-,
 (α S, γ R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



=> d his

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L1 1 S US20050249740/PN OR (US2005-520791# OR WO2003-EP7415 OR DE200
E DOMLING/AU
L2 28 S E4,E5
E DOEMLING/AU
L3 43 S E4-E6
E WEBER/AU
L4 18 S E3
E WEBER L/AU
L5 318 S E3-E15
E WEBER LUTZ/AU
L6 205 S E3-E9
E MORPHOCHEM/PA,CS
L7 117 S E3-E58
L8 33 S (MORPHO?(L)KOMB?(L)CHEM?)/PA,CS
L9 117 S L7,L8
L10 7 S L1-L9 AND TUBULYSIN?
SEL RN

FILE 'REGISTRY' ENTERED AT 15:25:56 ON 23 JAN 2007

L11 118 S E1-E118
L12 19 S L11 AND NC5/ES AND 46.150.18/RID AND NCSC2/ES
L13 1 S L12 AND C43H66N6O9S
L14 1 S L12 AND C43H65N5O10S
L15 2 S L13,L14
L16 7934 S (16.299.11 AND 46.150.18 AND 46.156.1)/RID
L17 0 S L16 AND C2H4O
L18 1493 S L16 AND 3/NR
L19 STR
L20 0 S L19
L21 STR L19
L22 0 S L21
L23 16 S L21 FUL
SAV L23 SATYA520/A
L24 0 S L23 AND C2H4O
L25 14 S L23 NOT L15
L26 1 S PEG/CN

FILE 'HCAPLUS' ENTERED AT 15:46:46 ON 23 JAN 2007

L27 14 S L15

L28 1 S L26 AND L27
L29 1 S L1-L10 AND L28
L30 7 S L25
L31 0 S L30 AND L26
L32 2 S L27 AND POLYOXYALKYLENE?/CW, CT
L33 0 S L27 AND (PEG OR POLYETHYLENEGLYCOL OR POLYETHYLENEOXIDE OR PO
L34 1 S L27 AND (POLYETHYLENE GLYCOL OR POLY() (ETHYLENEGLYCOL OR ETHY
L35 0 S L27 AND (POLYETHYLENE OXIDE OR POLY() (ETHYLENEOXIDE OR ETHYLE
L36 0 S L27 AND (POLYOXY ETHYLENE OR POLY() (OXYETHYLENE OR OXY ETHYLE
L37 0 S L27 AND (POE OR PEO OR EO OR OE)
L38 2 S L28,L28,L32,L34

FILE 'REGISTRY' ENTERED AT 15:49:36 ON 23 JAN 2007

FILE 'HCAPLUS' ENTERED AT 15:50:00 ON 23 JAN 2007

FILE 'USPATFULL' ENTERED AT 15:50:46 ON 23 JAN 2007

L39 4 S L15
L40 1 S L39 AND L26
L41 2 S L39 AND (PEG OR POLYETHYLENEGLYCOL OR POLYETHYLENEOXIDE OR PO
L42 1 S L39 AND (POLYETHYLENE GLYCOL OR POLY() (ETHYLENEGLYCOL OR ETHY
L43 1 S L39 AND (POLYETHYLENE OXIDE OR POLY() (ETHYLENEOXIDE OR ETHYLE
L44 0 S L39 AND (POLYOXY ETHYLENE OR POLY() (OXYETHYLENE OR OXY ETHYLE
L45 0 S L39 AND (POE OR PEO OR EO OR OE)
L46 1 S L39 AND POLYOXYALKYLENE?/CT
L47 2 S L40-L46

FILE 'USPATFULL' ENTERED AT 15:52:28 ON 23 JAN 2007

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FILE 'REGISTRY' ENTERED AT 16:10:18 ON 23 JAN 2007
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DICTIONARY FILE UPDATES: 22 JAN 2007 HIGHEST RN 918106-10-2

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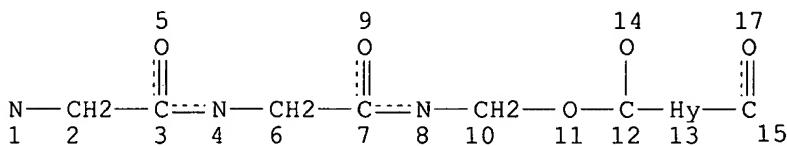
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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=> d sta que
L5 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE
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SEARCH TIME: 00.00.01

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ACT SATYA520/A

L1 STR

L2 16 SEA FILE=REGISTRY SSS FUL L1

L3 14 S TUBULYSIN AND NR>=1
L4 5 S L3 NOT L2
L5 STR
L6 0 S L5
L7 0 S L5 FUL

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FILE 'HCAPLUS' ENTERED AT 16:10:29 ON 23 JAN 2007

L8 10 S L4
L9 5 S L8 AND (PY<=2002 OR PRY<=2002 OR AY<=2002)
L10 28 S TUBULYSIN
L11 9 S L10 AND (PY<=2002 OR PRY<=2002 OR AY<=2002)
L12 10 S L9,L11

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L13 1 S PEG/CN

FILE 'HCAPLUS' ENTERED AT 16:11:18 ON 23 JAN 2007

L14 1 S L13 AND L12
L15 1 S L12 AND (POLYOXYALKYLENE? OR POLYETHYLENE GLYCOL OR POLY ETHY
L16 3 S L12 AND ?CONJUGAT?
L17 3 S L14-L16

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 16:12:52 ON 23 JAN 2007

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FILE COVERS 1907 - 23 Jan 2007 VOL 146 ISS 5
FILE LAST UPDATED: 22 Jan 2007 (20070122/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 117 bib abs hitstr retable tot

L17 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:1060832 HCAPLUS
DN 142:43740
TI Aptamer-toxin molecules and methods for using same
IN Stanton, Martin; Kurz, Markus; Wilson, Charles
PA USA
SO U.S. Pat. Appl. Publ., 41 pp., Cont.-in-part of U.S. Ser. No. 600,007.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 9

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	US 2004022727	A1	20040205	US 2003-600007	20030618 <--
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	WO 2005116255	A2	20051208	WO 2005-US12797	20050415
	WO 2005116255	A3	20060413		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, US			
	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	US 2002-390042P	P	20020618	<--	
	US 2003-600007	A2	20030618		
	US 2002-428102P	P	20021121	<--	
	US 2003-441357P	P	20030121		
	US 2003-463095P	P	20030415		
	US 2003-464179P	P	20030421		
	US 2003-464239P	P	20030421		
	US 2003-465053P	P	20030423		
	US 2003-465055P	P	20030423		
	US 2003-469628P	P	20030508		
	US 2003-474133P	P	20030529		
	US 2003-474680P	P	20030529		
	US 2003-486580P	P	20030711		
	US 2003-489810P	P	20030723		
	US 2003-491019P	P	20030729		
	US 2003-503596P	P	20030916		
	US 2003-512071P	P	20031017		
	US 2003-523935P	P	20031121		

US 2003-718833	A	20031121
US 2004-537045P	P	20040116
US 2004-537201P	P	20040116
US 2004-762915	A	20040121
US 2004-826077	A	20040415
US 2004-829504	A2	20040421
WO 2004-US12670	W	20040421
US 2004-873853	A2	20040621

AB Materials and methods are provided to prepare therapeutic conjugates for the treatment of proliferative diseases. The therapeutic conjugates of the invention comprise a targeting moiety conjugated to a therapeutic moiety. The therapeutic moiety of the conjugates of the present invention have a cytotoxic effect and are useful in the treatment of proliferative diseases.

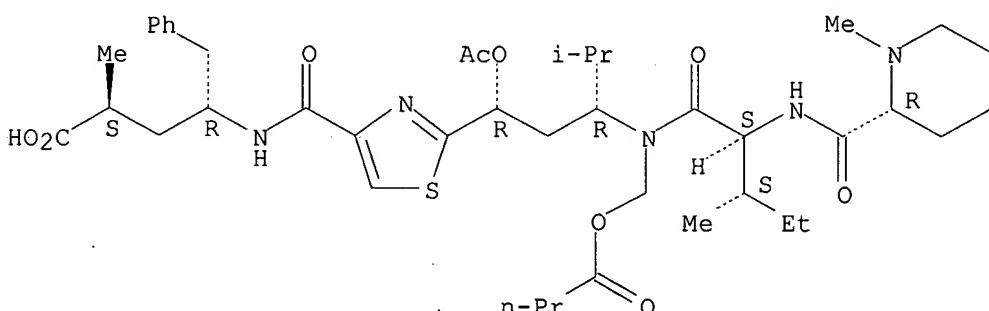
IT 309935-58-8D, Tubulysine, derivs., aptamer conjugates

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (aptamer-toxin conjugates for targeted treatment of proliferative diseases)

RN 309935-58-8 HCPLUS

CN Benzenepentanoic acid, γ -[[[2-[(1R,3R)-1-(acetoxy)-4-methyl-3-[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- α -methyl-, (α S, γ R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L17 ANSWER 2 OF 3 HCPLUS COPYRIGHT 2007 ACS on STN
 AN 2004:41504 HCPLUS

DN 140:71010

TI Tubulysin conjugates with polymers or biomolecules, and use for the treatment of cancer

IN Doemling, Alexander; Weber, Lutz

PA Morphochem Aktiengellschaft fuer Kombinatorische Chemie, Germany

SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2

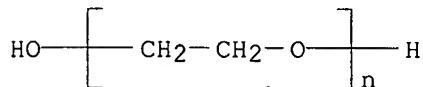
DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2004005326	A2	20040115	WO 2003-EP7415	20030709 <--	
	WO 2004005326	A3	20040219			
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,				

PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
 TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 DE 10230875 A1 20040122 DE 2002-10230875 20020709 <--
 DE 10305531 A1 20040819 DE 2003-10305531 20030211
 AU 2003253048 A1 20040123 AU 2003-253048 20030709 <--
 EP 1521769 A2 20050413 EP 2003-762673 20030709 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 US 2005249740 A1 20051110 US 2005-520791 20050108 <--
 PRAI DE 2002-10230875 A 20020709 <--
 DE 2003-10305531 A 20030211
 WO 2003-EP7415 W 20030709
 OS MARPAT 140:71010
 AB The invention discloses **tubulysin conjugates** (e.g. of
tubulysin A) with polymer or biomols. (e.g. antibodies) and the
use thereof in the treatment of cancers.
 IT 25322-68-3D, **Polyethylene glycol,**
tubulysin conjugates
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
 (tubulysin conjugates with polymers or biomols.,
and use for treatment of cancer)
 RN 25322-68-3 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- (9CI) (CA INDEX
NAME)



L17 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
 AN 2002:754431 HCAPLUS
 DN 137:274074

TI Recombinant production of polyanionic polymers, and uses thereof as drug
carriers for improvement of bioactivity and water-solubility
 IN Leung, David W.; Bergman, Philip A.; Lofquist, Alan; Pietz, Gregory E.;
Tompkins, Christopher K.; Waggoner, David W., Jr.
 PA Cell Therapeutics Inc, USA
 SO PCT Int. Appl., 74 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002077036	A2	20021003	WO 2002-US8614	20020321 <--
	WO 2002077036	A3	20040129		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB,
 GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA,
 GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2002169125	A1	20021114	US 2002-101487	20020320 <--
AU 2002252429	A1	20021008	AU 2002-252429	20020321 <--
US 2005118136	A1	20050602	US 2004-939988	20040914 <--

PRAI US 2001-277705P P 20010321 <--
 US 2002-101487 A3 20020320 <--
 WO 2002-US8614 W 20020321 <--

AB The invention provides a method for constructing a expression cassette that produce a polyanionic polymer that can be used as drug carriers to improve the bioactivity and water-solubility properties of a drug. The inventive method provides a monodispersed preparation of a recombinantly-produced polyanionic polymer that can be easily manipulated, such as lengthened. An active moiety may be chemical or recombinantly joined to a polyanionic polymer to increase its biol. half-life and/or solubility. The instant invention also provides a method for targeting the delivery of a polyanionic polymer **conjugate** or fusion protein to a specific cell type or tissue.

IT Proteins

RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(conjugates, with polyanionic polymer; recombinant production of polyanionic polymers, and uses thereof as drug carriers for improvement of bioactivity and water-solubility)

IT Antitumor agents

(epothilones, dolastatins, or tubulysins fused with polyanionic polymer; recombinant production of polyanionic polymers, and uses thereof as drug carriers for improvement of bioactivity and water-solubility)